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CLAIMS

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[Claim(s)]

[Claim 1] Outer wall structure of a house of coming to prepare the plywood which inserted the edge on either side in the cut engraved on the opposite side edge of each column in the intercolumniation of the right and left stood to the foundation.

[Claim 2] Outer wall structure of the house which comes to form the air duct which prepares the plywood which inserted the edge on either side in the cut engraved on the opposite side edge of each column in the intercolumniation of the right and left stood to the foundation, attaches an adequate several stud in the front face of a plywood at suitable spacing, attaches outer wall material from on the, and is constituted by the background of outer wall material between studs.

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the outer wall structure excellent in the earthquake resistance of a house.

[0002]

[Background of the Invention] The outer wall structure of a house puts a diagonal brace into intercolumniation on either side, and has raised the reinforcement of framework structure. However, to the earthquake, especially the local earthquake, the diagonal brace was very brittle and the technical problem were scarce was in earthquake resistance.

[0003]

[Means for Solving the Problem] This invention enabled it to offer earthquake resistance and the outer wall structure which was excellent in earthquake resistance also to especially the local earthquake. The outer wall structure which carries out a deer and starts this invention should have prepared the plywood which inserted the edge on either side in the cut engraved on the opposite side edge edge of each column in the intercolumniation of the right and left stood to the foundation.

[0004] The air duct which prepares the plywood which inserted the edge on either side in the cut engraved on the opposite side edge edge of each column, attaches an adequate several stud in the front face of a plywood at suitable spacing, attaches outer wall material in the intercolumniation of the right and left stood to the foundation from on the, and is constituted between studs in more detail on the background of outer wall material should be formed.

[0005]

[Example] The example which shows the example of this invention below to an accompanying drawing explains. In drawing, Signs 1a and 1b show two columns on either side, and have set them up on the foundation 2, and a sign 3 shows a upside digit.

[0006] To the columns 1a and 1b on either side, Cuts 4a and 4b are fine cut by \*\* etc. in the front face of the opposite side edge edge, and cuts 5 and 6 are fine cut, respectively in the front face of the upper part of a foundation, and the front face of the lower part of a digit.

[0007] A deer is carried out, the plywoods 7, such as plywood, are inserted in the aforementioned cut of the column of right and left of the right-and-left edge of \*\*\*\* as the back up plate, the margo inferior is inserted in the cut 5 of a foundation, an upper limb is inserted in a cut of a digit, and it has considered as proof stress foundation structure at intercolumniation on either side, and it strikes against a column on either side with a nail, and if a plywood accepts the need, it is \*\*\*\*\* (ed) also for a foundation and an up digit. In addition, a plywood may be fixed to a column, a foundation, and an up digit with adhesives, without using a nail.

[0008] The tarpaulin 8 which has permeability is stretched in the front face of a plywood, the adequate several stud (furring strip) 9 struck against the plywood with the nail from on the is attached at suitable spacing, and the outer wall material 10 is struck and attached in a column and a stud with a nail etc. from on the. The air duct 11 constituted between studs is formed in the background of a plywood in this way.

[0009]

[Function and Effect of the Invention] As for the outer wall structure concerning this invention, the plywood with which the right-and-left edge has fitted in is prepared in a cut of the opposite side edge

edge of a column at intercolumniation on either side, and the margo inferior fits into an up cut of a foundation, and since the plywood has fitted into the lower cut of a digit, an upper limb There are few possibilities that the framework structure which consists of a column, a foundation, and a digit may be firm with the plywood, therefore it may be distorted also to a strong vibration and a strong shake, and they have become the thing excellent in earthquake resistance.

[0010] Moreover, since the air duct constituted between studs is formed in the background of outer wall material, air does not pile up in the background of outer wall material, permeability is good, and dew condensation is prevented, and it can consider as the long outer wall structure of a life.

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TECHNICAL FIELD

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[0002]

[Background of the Invention] The outer wall structure of a house puts a diagonal brace into intercolumniation on either side, and has raised the reinforcement of framework structure. However, to the earthquake, especially the local earthquake, the diagonal brace was very brittle and the technical problem were scarce was in earthquake resistance.

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**EFFECT OF THE INVENTION**

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[Function and Effect of the Invention] As for the outer wall structure concerning this invention, the plywood with which the right-and-left edge has fitted in is prepared in a cut of the opposite side edge of a column at intercolumniation on either side, and the margo inferior fits into an up cut of a foundation, and since the plywood has fitted into the lower cut of a digit, an upper limb There are few possibilities that the framework structure which consists of a column, a foundation, and a digit may be firm with the plywood, therefore it may be distorted also to a strong vibration and a strong shake, and they have become the thing excellent in earthquake resistance.

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MEANS

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[Means for Solving the Problem] This invention enabled it to offer earthquake resistance and the outer wall structure which was excellent in earthquake resistance also to especially the local earthquake. The outer wall structure which carries out a deer and starts this invention should have prepared the plywood which inserted the edge on either side in the cut engraved on the opposite side edge edge of each column in the intercolumniation of the right and left stood to the foundation.

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EXAMPLE

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] The outer wall structure by this invention is a fracture front view a part.

[Drawing 2] The crossing top view of the outer wall structure by this invention.

[Description of Notations]

1a, 1b Column

2 Foundation

3 Digit

4a, 4b Cut of a column

5 Cut of Foundation

6 Cut of Digit

7 Plywood

8 Tarpaulin

9 Stud

10 Outer Wall Material

11 Air Duct

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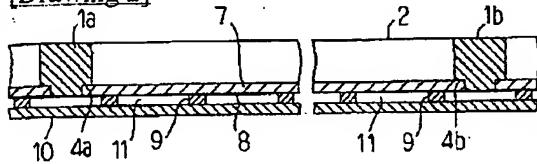
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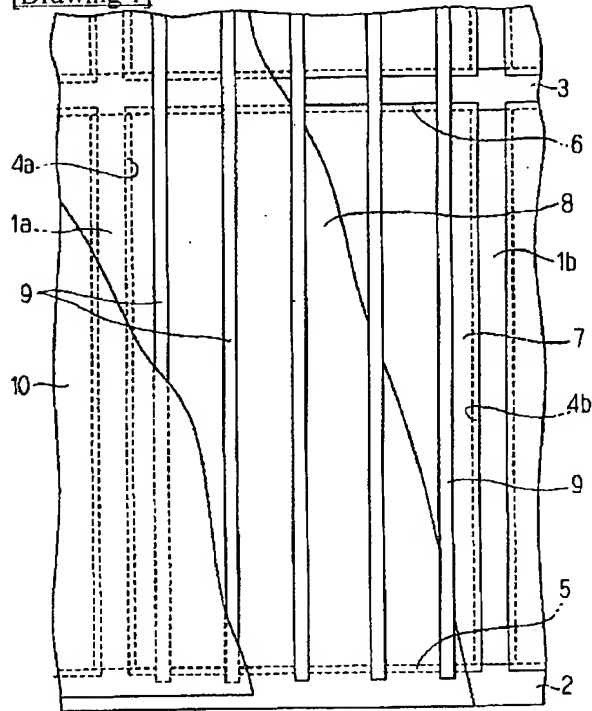
DRAWINGS

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[Drawing 2]



[Drawing 1]



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[Translation done.]

(19)



JAPANESE PATENT OFFICE

# PATENT ABSTRACTS OF JAPAN

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(22) Date of filing: 10.07.1996

(71) Applicant: TOEI KENSETSU KOGYO:KK

(72) Inventor: SATO NAOMASA

## (54) EXTERIOR WALL STRUCTURE OF HOUSE

### (57) Abstract:

**PROBLEM TO BE SOLVED:** To strengthen framework so as to improve earthquake resistance of exterior wall structure by fitting lateral edge of plywood into slits recessed at the opposed side edges of lateral columns erected on a still.

**SOLUTION:** Slits 4a, 4b are provided recessed at the front faces of the opposed side edges of lateral columns 1a, 1b erected on a still 2. Slits 5, 6 are provided recessed also at the upper part front face of the still 2 and the lower part front face of a girder 3. Plywood 7 such as a veneer board serving as a reinforcing plate is fitted into the slits 4a, 4b at the lateral edges between the lateral columns 1a, 1b, and the lower edge is fitted into the slit 5 of the sill, while the upper edge is fitted into the slit 6 of the girder 3. A gas permeable waterproof sheet 8 is stuck to the front face of the plywood 7, and the suitable number of vertical sash bars 9 are nailed to the plywood 7 from the top of the waterproof sheet 8. Exterior material 10 is further nailed to the columns 1a, 1b and the vertical sash bars 9. A space between the vertical sash bars 9, 9

is made an air passage. Framework structure formed of the columns 1a, 1b, the still 2 and the girder 3 is strengthened by the plywood 7 so as to improve earthquake resistance.

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